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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/643,561	08/18/2003	Yi-Fang Michael Shiuan	60077-0012 4933		
29989	7590 01/12/2006	EXAMINER			
HICKMAN	PALERMO TRUONG &	XIAO, KE			
2055 GATEV SUITE 550	WAY PLACE		ART UNIT	PAPER NUMBER	
SAN JOSE,	CA 95110		2675		
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DATE MAILED: 01/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·		Application No	 · · · · · · · · · · · · · · · · · · 	Applicant(s)					
Office Action Summary		10/643,561		SHIUAN ET AL.					
		Examiner		Art Unit					
	•	Ke Xiao		2675					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address									
Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)⊠	Responsive to communication(s) filed on 18 Au	<u>ugust 2003</u> .							
,—	This action is FINAL . 2b)⊠ This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Disposition of Claims									
4)⊠ Claim(s) <u>1-38</u> is/are pending in the application.									
4a) Of the above claim(s) is/are withdrawn from consideration.									
5)⊠ Claim(s) <u>35 and 36</u> is/are allowed.									
6) Claim(s) 1-3,5-9,11,13,15-20,22-26,28,30,32-34,37 and 38 is/are rejected.									
	Claim(s) 4,10,12,14,21,27,29 and 31 is/are obj								
8) Claim(s) are subject to restriction and/or election requirement.									
Applicat	ion Papers								
9)□	The specification is objected to by the Examine	er.							
10)	The drawing(s) filed on is/are: a) acc	epted or b)□ ob	jected to by the f	Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority	under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
1. Certified copies of the priority documents have been received.									
2. Certified copies of the priority documents have been received in Application No									
3. Copies of the certified copies of the priority documents have been received in this National Stage									
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
				•					
Attachmei	nt(s)	•							
I	ce of References Cited (PTO-892)	4) [
2) 🔲 Noti	ce of Draftsperson's Patent Drawing Review (PTO-948)	د، ا	Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:									

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claims 6-8, 13, 16, 23-25, 30 and 33 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 6, 13, 23 and 30 are inconsistent with the claims from which they depend. Claims 6, 13, 23, and 30 all recite the limitation "the second display is about to being experiencing a second blank period" relating to sending a response, which means that the second display is currently not experiencing a blank period during the response. However, independent claims 1 and 18, from which the above claims depend, recite the limitation that the proper time to send a response is at least partially during a period when both first and second displays are both experiencing a blank period. These two limitations are contradictory.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1, 3, 5, 9, 11, 15, 17, 18, 20, 22, 26, 28, 32, 34, 37 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leske (US 5,473,385) in view of Shelton (US 6,046,709).

Regarding independent Claims 1, 18, 37 and 38, Leske teaches a method and apparatus comprising a mechanism for receiving a request from a component to adjust an operational parameter of the component (Leske, Fig. 3 element 90-92, Col. 2 lines 30-50, Col. 6 lines 1-31); and

a mechanism for sending a response to the component at a proper time to cause the component to adjust the operational parameter, at least partially, during a particular time period in which a first display is experiencing a blank period (Leske, Fig. 3 element 45 and 92, Col. 2 lines 30-50, Col. 6 lines 1-31).

Leske fails to teach that the time period including a second display also experiencing a blank period. Shelton teaches that two or more displays can be used in conjunction with each other. And that all the displays in a system can be adjusted be synchronous with each other (Shelton, Fig. 1, Col. 2 lines 55-67). It would have been obvious to utilize multiple displays as taught by Shelton in the system of Leske in order to realize a large visual data among tiled displays. It is further advantageous to synchronize the displays so that the both would experience a blanking period to prevent image degradation.

Regarding Claim 3, 9, 20 and 26, Leske teaches that the frequency adjustment can occur at any time during the vertical blanking period, which includes the beginning of the vertical blanking period (Leske Fig. 3 elements 45 and 92). And since the

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combined teachings of Leske and Shelton teach that the displays are synchronous then the vertical blank periods must also be synchronous so therefore Leske in combination with Shelton teach that the proper time is a time during which the first display is experiencing a first blank period and the second display is beginning to experience a second blank period.

Regarding Claims 5, 11, 22 and 28, Leske in combination of Shelton further teaches that the first and second blanking periods are both vertical blanking periods (Leske, Col. 2 lines 30-50).

Regarding Claims 15, 17, 32 and 34, Leske teaches that the frequency adjustment can occur at any time during the vertical blanking period, which includes the beginning of the vertical blanking period (Leske Fig. 3 elements 45 and 92). And since the combined teachings of Leske and Shelton teach that the displays are synchronous then the vertical blank periods must also be synchronous so therefore Leske in combination with Shelton teach that the proper time is in response to a determination that the first display is currently experiencing a vertical blank period, sending the response to the component when the second display beings to experience a vertical blank period (Leske, Fig. 3 element 45 and 92, Col. 2 lines 30-50).

Claims 2 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leske (US 5,473,385) in view of Shelton (US 6,046,709) as applied to claims 1 and 18 above, and further in view the applicant's admitted prior art.

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Regarding Claims 2 and 19, Leske in combination with Shelton fail to teach that the component is a CPU but do however teach that the operational parameter is an operating clock frequency (Leske, Col. 2 lines 30-50). The applicant's admitted prior art teaches that it is known in the art to adjust the frequency of the CPU in order to accommodate different loads. And such a frequency adjustment interferes the display system because the image data is not allowed to reach the display at the appropriate times (Pg. 1-4). The same problems are discusses by Leske only for a different type of processor. Both processors affect the image when they are adjusting frequency. So therefore it would have been obvious to adjust the frequency of any component which affects display quality during the blank period as taught by Leske including a CPU as taught by the applicant's admitted prior art in order to prevent image degradation.

Allowable Subject Matter

Claims 35 and 36 are allowed.

Claims 4, 10, 12, 14, 21, 27, 29 and 30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding Claims 4, 10, 12, 14, 21, 27, 29 and 30 prior art fails to teach that the second blanking period is a horizontal blanking period as claimed.

Regarding Claims 35 and 36 prior art fails to teach the response of to the component under the specified conditions as claimed.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ke Xiao whose telephone number is (571) 272-7776.

The examiner can normally be reached on Monday through Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

December 2nd, 2005 - kx -

SUMATI LEFKOWITZ SUPERVISORY PATENT EXAMINER